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(54) SILICON CARBIDE RAW POWDER FOR CASTING AND CASTING METHOD USING THE SAME

(57)Abstract:

PURPOSE: To produce a silicon carbide raw powder for casting capable of forming a homogeneous slurry in which the raw powder is uniformly dispersed and capable of obtaining a silicon carbide compact reduced in the variance of quality.

CONSTITUTION: At least one of the carbon black and boron as a sintering assistant is added by 1-7wt.%, preferably 2-5wt.%, to a silicon carbide powder to form a raw material mixture, and □1wt.% of a coupling agent is added to the mixture to prepare a silicon carbide powder, which is dispersed in a dispersion medium to prepare the slurry, and the slurry is cast in a casting mold to form the compact of specified shape.

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